



Our latest 5,400 RPM DiamondMax[™] VL 30 series deliver unbeatable value for the emerging entry-level system and consumer electronics markets. Based on 1- and 2-disk configurations, the VL series offers reliable storage in a cost effective package. Available in capacities up to 30 GB, the VL series provides the field-proven quality and reliability of our mainstream DiamondMax products and includes Maxtor's innovative ShockBlock[™] and MaxSafe[™] feature sets for added reliability and superior protection from shock damage. An UltraDMA 66 interface, 512 KB cache buffer and <9.5 ms seek performance come standard with each VL product. When your application requires a cost effective storage device, choose the leader of innovative storage products–specify the DiamondMax VL series by Maxtor.

5,400 RPM

3.5-INCH VALUE SERIES HARD DRIVES

Capacities up to 30 GB

Designed for Entry-level Systems and Consumer Electronics Applications

FEATURES:

Fast ATA/Enhanced IDE compatible

Digital Signal Processor (DSP)-Based Architecture

> UltraDMA 66 Data Transfer Rate

> 512 KB SDRAM Cache Buffer

<9.5 ms Seek Time

No Quibble Service[®] and Support





MODEL

CAPACITY

HEADS

DISKS

Category Leader DiamondMax Plus 40 (40.9 GB) *Winmag.com*, January 2000



Safe Buy DiamondMax Plus 40 (40.9 GB) Storage Review.com, December 1999

32049U3

20,490 MB

3

2

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Hard Drive Best Buy DiamondMax Plus 5120 (20.4 GB) PC World Magazine, October 1999



Category Leader DiamondMax Plus 6800 (27.3 GB) *Winmag.com*, October 1999

30768U1

7,683 MB

1



The DiamondMax VL 30 series delivers unbeatable reliability including:

- 15.3 GB of storage per disk
- Fast data transfer rates (up to 66 MB/sec)
- 5,400 RPM spin speed
- < 9.5 ms average seek
- 512 KB cache buffer
- 3-year warranty



PERFORMANCE	SPECIFICATIONS
Seek Times (typical)	

1 ms
< 9.5 ms
< 20 ms
5.55 ms
5,400 RPM
< 0.3 ms
8.5 sec typical

33073U4

30,735 MB

4

2

DATA TRANSFER RATES	
To/From Interface	up to 66 MB/sec
To/From Media	up to 40.8 MB/sec

DRIVE CONFIGURATION

Integrated Controller	ATA-5/UDMA 66
Buffer Size	512 KB
Buffer Type	SDRAM
Data Zones per Surface	16
Bytes per Sector/Block	512

RELIABILITY SPECIFICATIONS

Start/Stop Cycles	50,000 (minimum)
Component Design Life	5 years (minimum)
Data Errors (non-recoverable)	< 1 per 10 ¹⁴ bits read
Annual Return Rate (ARR)	< 1%









All Maxtor products are backed by the *No Quibble Service*[®] policy, the benchmark for service and support in the industry. *No Quibble Service* includes:

- Advance replacement in 2 business days
- MaxFax[™] 24-hour automated technical support
- · Maxtor's commitment to total customer satisfaction
- · Phone technicians available Monday-Friday

For more information or to talk to a customer support representative, call: (U.S. and Canada) 800-2MAXTOR. Available 5 A.M.–5 P.M. (PT) Mon–Fri; (Europe) +353 1 204 1111. Available 9:30 A.M.–6 P.M. (CET) Mon–Thurs and 9:30 A.M.–5 P.M. (CET) Fri; (Asia/Pacific) 800-481-6788. Available 8 A.M.–5:30 P.M. (GMT+8) Mon–Fri; or visit our home page on the Internet at http://www.maxtor.com.

Specifications subject to change without notice. Maxtor defines 1 megabyte as 10° or 1 million bytes and 1 gigabyte as 10° or 1 billion bytes. ¹Acoustics measured at 5k ft. ²Without non-recoverable errors. DualWave[™], MaxEafe[™] and ShockBlock[™] are trademarks of Maxtor. DiamondMax^{*}, Maxtor[®] and No Quibble Service[®] are registered trademarks of Maxtor Corporation. Copyright © 2000 Maxtor Corporation. Printed in the U.S.A. 3/00 Stock #VL30 Rev. 4710A

POWER REQUIREMENTS (TYPICAL)

31536U2

15,367 MB

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Mode	12V±10%	5V±5%	Power
Spin-up (peak)	1800 mA	600 mA	
Seek	650 mA	550 mA	10.6 W
Read/Write	250 mA	550 mA	5.8 W
Idle	250 mA	500 mA	5.5 W
Standby	20 mA	200 mA	1.3 W

ENVIRONMENTAL LIMITS

Acoustics	
Idle mode	3.1 bel (average sound power) ¹
Temperature	
Operating	5°C-55°C
Non-operating, Storage	-40° C - 71° C
-	

RELATIVE HUMIDITY (NON-CONDENSING)

Operating, Non-operating, Storage	5% - 9 5%
Maximum Wet Bulb, Operating	30° C

ALTITUDE (RELATIVE TO SEA LEVEL)

Operating	-200 - 10,000 feet	
Non-operating	-200 - 40,000 feet	
VIBRATION		
Operating, random, no errors ²	10 - 45 Hz at 0.004 G2/Hz	
	48 - 62 Hz at 0.008 G2/Hz	
	65 - 300 Hz at 0.004 G2/Hz	
	301 - 500 Hz at 0.0006 G2/Hz	
Non-operating, random 10 - 2,0	00 Hz at 2.15 Grms, no damage	
Operating, swept sine (.25 octave per minute)		
10 - 300 Hz	1.0 G peak amplitude	
S носк		
Operating Mechanical Shock	30 Gs, 2 ms, no errors ²	

PHYSICAL DIMENSIONS (MAXIMUM)

Non-operating Mechanical Shock

		- /
Height	1.02 in	2.61 cm
Length	5.78 in	14.70 cm
Width	4.00 in	10.16 cm
Weight	1.30 lbs	0.59 kg



250 Gs, 2 ms, no damage²